

SEQUENCE LISTING

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Vilma, Yuzbasıyan-Gurkar.
Schall, William D.

## RECEIVED

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<130> UMV-1226CPPCUS

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<151> 1998-09-11

<150> PCT/UJ99/18153

<151> 1999-08-10

<1605 29

<170> Patentin Ver. 1.0

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<212 ≠ PRT
<713 · Canis familiaris
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Leu Pro Gly Lys Leu Cys Thr Lys Gly Thr Val Gly Arg Ser Jer Met
Ala Arg Cys Ser Leu Leu Gly Gly Asp Phe Ile Ash Thr Phe Asp Wlu
Ser Mét Tyr Sêr The Ala Gly Asp Cys Ser Tyr Lêu Lêu Ala Ny Asp
Cys Gln Glu His Ser ITe Ser Leu Ile Gly Gly Phe Gln Asn Ast Lys
Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
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Val Asp Pro Glu Pro Phe Val Ala Leu Cys Glu Arg Thr Leu Cys Thr 245 250 250

Cys Val Gln Sly Met Glu Cys Pro Cys Ala Val Leu Leu Glu Tyr Ala 260 265 270

Arg Ala Cys Ala 51n 31n Gly Ile Val Leu Tyr 31y Trp Thr Asp His 275 280 285

Ser Val Cys Arg Ero Ala Cys Pro Ala Gly Met Glu Tyr Lys Vin Cys 290 - 295 - 300

Val Ser Pro Cys Thr Arq Thr Cys Cln Ser Lau His Val Lys Ckl Val 305 310 315 320

Cys Gln Glu Gin Cys Val Asp Gly Cys Ser Cys Pro Glu Gly Fin Leu 325

Leu Asp Glu Gly His Tys Val Gly Ser Ala Glu Cys Ser Cys Val His 340 345 350

Ala Gly Gln Arg Tyr Pro Pro Gly Ala Ser Leu Leu Gln Asp Cys His 355 360 365

Thr Cys Ile Cys Arg Asn Ser Leu Trp Ile Cys Ser Asn Glu Glu Cys 370 375 380

Pro Gly Glu Cys Leu Vai Thr Gly Gln Ser His Phe Lys Ser Fhe Asp 385 340 395

Ash Arg Tyr Phy Thr The Der Gly Val fys His Tyr Leu Leu Ala Ed. 400 410 410

Asp Cys Gln Asp Eis Thr The Ser Val Val IIe 31n Thr Val 31n Tyr 4.1  $^{\circ}$ 

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Leu Val Glu Asp Phe Gly Asn Ala Trp Lys Leu Leu Gly Ala Cys Glu 545 550 555 560

Asn Leu Gln Lys Gln His Arg Asp Pro Cys Ser Leu Asn Pro Arg 31n 565 570 578

Ala Arg Phe Ala Glu Glu Ala Cys Ala Leu Leu Thr Ser Ser Lys Ebé 580 590

Glu Pro Cys His Arg Ala Val Gly Pro Glr Pro Ty: Val Gln Ash 'ys 595 605

Leu Tyr Asp Val Cys Ser Cys Ser Asp Gly Arg Asp Cys Leu C,: Jor 610 610 610

Ala Val Ala Asn Tyr Ala Ala Ala Val Ala Arg Arg Gly Val Eis Ile 625 630 630 635

Ala Trp Arg Glu Pro Gly Phe Cys Ala Leu Ser Cys Pro Gln Gly Jin 645 650 650

Val Tyr Leu Gln Cys Gly Thr Fro Cys Asn Met Thr Cys Leu Ser Leu 660 670

Ser Tyr Pro Glu Glu Asp Cys Asn Glu Val Cys Leu Glu Ser Cys Fhe 675 680 685

Ser Pro Pro Gly Leu Tyr Leu Asp Glu Arg Gly Asp Cys Val Fro Lys 690 695 700

Ala Sin Cys Pro Cys Tyr Tyr Asp Gly Siu lie Ehe Gin Pro Siu Asp 705 716 716

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Cys Val Cys Arg Asi Arg Lys Trp Thr Cys Thr Asp His Val Cys Asp 860 855

Ala Thr Cys Ser Ala Ile Gly Met Ala His Tyr Leu Thr Phe Asp Gly 870 870 875 870

Leu Lys Tyr Leu Fhe Fro Gly Blu Cys Jin Tyr Val Leu Val Gln Asp 840 890 891

Tyr Cys Gly Ser Asn Pro Gly Thr Leu Arg 11e Leu Val Gly Asn Glu 905

Gly Mys Ser Tyr Er- Der Val Lys Mys Lys Lys Arg Val Thr II. Lou 915 - 920

Val Glu Gly Gly Glu He Glu Heu Fhe Asp Gly Glu Val Asn Val Lys 930 935 940

Lys Fro Met Lys Asp Glu Thr His Fhe Glu Val Val Glu Ser Gly Glo 945 950 960

Tyr Val 11e Leu Leu Leu Gly Lys Ala Leu Ser Val Val Trp Asp His 965 970 478

Arg Leu Ser Ile Ser Val Thr Leu Lys Arg Thr Tyr Gln Glu Gln Val 980 985 990

Cys Gly Leu Cys Gly Asn Fhe Asp Gly Ile Gin Asn Asn Asp Phe Thr 495 1000 1005

Ser Cer Cer Leu Vin He Giu Giu Asp Er Val Asp Pho Gly Ash Jot 1818 - 1820

Trp Lye Val Ach Fro the typ Ala Asp Thr Lye Lye Val Fro Los Asp 1 1 2

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Glu Leu Leu Gln Thr Cys Ile Asp Fro Glu Asp Cys Pro Val Cys Glu 1185 1190 1195 1200

Val Ala Gly Ard Arg Leu Ala Fro Gly Lys Lys He Fie Leu Ach Fro 1205 - 121

Ser Asp Pro Ulu His Cys Glm III Eys Ash Eys Asp Gly Val Ash The 1220 125 125

Thr Cys Lys Ala Cys Arg Glu Pro Gly Ser Val Val Pro Pro Thr 1235 1245

Asp Gly Pro Ile Gly Ser Thr Thr Ser Tyr Val Glu Asp Thr Ser Glu 1250 1260

Pro Pro Leu His Asp Phe His Cys Ser Arg Leu Leu Asp Leu Val Phe 1265 1270 1275 1286

Leu Leu Asp Gly Ser Ser Lys Leu Ser Glu Asp Glu Phe Glu Val Leu 1285 1290 1295

Lys Val Phe Val Val Gly Met Met Glu His Leu His Ile Ser Gln Lys 1300 1310

Arg Ilo Ary Val Ala Val Val Glo Tyr His Asp Gly Ser His Ala Tyr 1315 - 1325 - 1325

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Ser Gly Val Asp Glu Leu 31u Gln Arg Arg As; Glu Ile Ilê Ash Tyr 1445 - 1450 - 1455

Leu Cys Asp Leu Ala Fro Glu Ala Pro Ala Pro Thr Gln His Pro Pro 1460 1465 1470

Met Ala Gln Val Thr Val Gly Ser Glu Leu Leu Gly Val Ser Ser Fro 1485 1486

Gly Pro Lys Arg Asr, Ser Met Val Leu Asp Val Val Phe Val Lyu Slu 1490 1495 1580

Gly Ser Asp Lys II- Gly Giu Ala Ash Phe Ash Lys Ger Ary Glu Phe 1505 1510 1516 1520

Met Glu Glu Val Ile Gin Arg Met Asp Val Gly Gln Asp Arg I  $\sigma$  His 1525 1530 1530

Val Thr Val Leu Glr Tyr Ser Tyr Met Val Thr Val Glu Tyr Thr Pho 1545 155

Ser Glu Ala Gîn Ser Lys Gly Giu Val Leu Gin Sin Val Arg As; II-1595 - 1560 - 1565

Arg Tyr Arg Gly Gly Asn Arg Thr Asn Thr Gly Leu Ala Leu Gin Tyr 1570 1580

Leu Ser Glu His Ser Phe Ser Val Ser Gln Gly Asp Arg Glu Gln Val 1585 1590 1595 1600

Pro Asn Leu Val Tyr Met Val Thr Gly Asn Fro Ala Ser Asp Glu Ile 1608 1610 1615

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Met Gin Glu Gly Gly Fro Jer Glu Ile Gly Asp Ala Leu Ser File 1765

Ala Val Arg Tyr Val Thr Ser Glu Val His Gly Ala Arg Pro Gly Ala 1780 1785 1792

Ser Lys Ala Val Val Ile Leu Val Thr Asp Val Ser Val Asp Ser Val 1895 1890 1895

Asp Ala Ala Giu Ala Ala Arg Ser Ash Arg Val Thr Val Ine Iny 1810 - 1819 - 1827

Ile Gly Ile Gly Asp Arg Tyr Ser Glu Ala Gln Leu Ser Ser Let Aia 1825 - 1830 - 1840 - 1840

Gly Pro Lys Ala Gly Ser Asn Mot Val Ard Leu Gln Ard He Glu Asp 1845 1850 1850

Leu Pro Thr Val Ala Thr Let 3ly Ash Ser Phe Phe His Lys Let Tys 1863 1865 1873

Ser Gly Phe Asp Arg Val Cys Val Asp Blu Asp Bly Ash Glu Lyr Arg 1875 - 1885

Pro Gly Asp Val Trp Thr Leu Fre Asp 31m Cys His Thr Val Thr Cys 1890 1900

Leu Pro Asp Gly Gln Thr Leu Leu Lys Ber His Arg Val Asm Cys Asp 1905 1910 1915 1927

Arg Gly Pro Arg Pro Ser Tys Fro Ach Gly Gln Fro Fro Leu Arg Vii 1925 1930 1935

Sin Gir Thr Tys Siy Tyw Ard Tap The Cyc Ernstys Val Tyo Met Siy 144

Thr Aly Cer Tys Cer Tyr Va. Lea Boe Win Abn Lys Wig ein Alp De . 1977 - 197

Fig. Wall lie left tin Ash. May Ala Mys Lea Ex. May Ala Lys two lines.

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- Ash Ash Glu Phe Gln Leu Gln Leu Ser Fro Arg Thr Phe Ala Ser Lys 075
- Thr Tyr Gly Leu Cys Gly Ile Cys Asp Glu Ash Gly Ala Ash Asp Phe 2090 2695
- Ile Leu Arg Asp Gly Thr Val Thr Thr Asp Trp Lys Ala Leu Ile Gln
- Glu Trp Thr Val Gln Gln Leu Gly Lys Thr Ser Gln Fro Val Bis Glu
- Glu Gin Cys Fro Val Ser Glu Fné Fne His Sys Ain Van Leu Leu Ser 2130 2135 2149
- Glu Leu Fhe Ala Glu Cys His Lys Val Leu Ala Fro Ala Thr Fhe Tyr
- Ala Met Cys iln Fro Asp Ser Cys His Fro Lys Lys Val Cys Blu Ala
- Ile Ala Leu Tyr Ala His Leu Cys Arg Thr Lys Bly Val Cys Val Asp
- Trp Arg Arg Ala Ash Phe Cys Ala Met Ser Cys Pro Pro Ser Leu Val 2195 2200
- Tyr Ash His Cys Glu His Gly Cys Pro Arg Leu Cys Glu Gly Ash Thr 2210 2216 2227
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- Glu Cys Arg Pro Asn Phe Thr Cys Ala Cys Arg Lys Asp Glu Cys Arg 2365 2360 2365
- Arg Glu Ser Pro Pro Ser Cys Pro Pro His Arg Thr Pro Ala Leu Arg 2370 2380
- Lys Thr Gln Cys Cys Asp Glu Tyr Glu Cys Ala Cys Asn Cys Val Asn 2385 2390 2395 2400
- Ser Thr Val Ser Cys Pro Leu Gly Tyr Leu Ala Ser Ala Val Thr Asn 2405 2419 2419
- Asp Cys Gly Cys Thr Thr Thr Thr Cys The Pro Asp Lys Val Tys Val 2420 0.44%
- His Arg Gly Thr II+ Tyr Pro Val Gly Gin The Trp Glu Glv. Al. Cys 2435 2445
- Asp Val Cys Thr Cys Thr Asp Leu Glu Asp Ser Val Met Gly Leu Arg 2450 2455 2460
- Val Ala Gln Cys Ser Gln Lys Fro Cys Glu Asp Ash Cys Leu 8er Gly 2465 - 2470 - 2475 - 2488
- Phe Thr Tyr Val Leu His Glu Gly Glu Cys Cys Gly Arg Cys Lei Erc 2485 2490 2490
- Ser Ala Cys Glu Val Val Thr Gly Ser Pro Arg Gly Asp Ala Gln Ser 2500 2505 2510
- His Trp Lys Asn Val Gly Ser His Trp Ala Ser Pro Asp Asn Fro Cys 2525 2525
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Ser His Phw Mys Lys Val Ash Olu Arg Gly Olu Tyr Ile Trp Glu Lys 26%5 26%0 2685

Arg Val Thr 3ly Cys Pro Pro Phe Asp Glu His Lys Cys Leu Ala Glu 2690 2695 2700

Gly Gly Lys :le Met Lys Ile Pro Gly Thr Cys Cys Asp Thr Cys Glu 2705 2719 2719 2719

Glu Pro Glu Cys Lys Asp lie lie Ala Lys Leu 3lm Arg Val Lys Val 27 %

Gly Asp Cys Lys Ser Glu Glu Glu Val Asp Ile His Tyr Cys elu Gly 2745 2750

Lys Cys Ala Ser Lys Ala Val Tyr Ser Ile His Met Glu Asp Val Gl<br/>n 2755 2765 2765

Asp Glr. Cys Ser Cys Cys Ser Pro Thr Glr. Thr Glu Pro Met Flr. Val 2006 2006

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Thr 31m Arg
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<211 - 31
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<211> 218
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Val Leu Trp Blu Bin Tys Gin Leu Leu Lys Ser Ala Ber Val Fhe Ala
Arg Cys His Pro Leu Val Asp Ero Blu Ero Ehe Val Ala Lou Dys Glu
As a line like, type like two Val. And thy Met. And type like typ. And Val.
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diy Trp Thr Asp His Der Var Tys Ara
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